

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

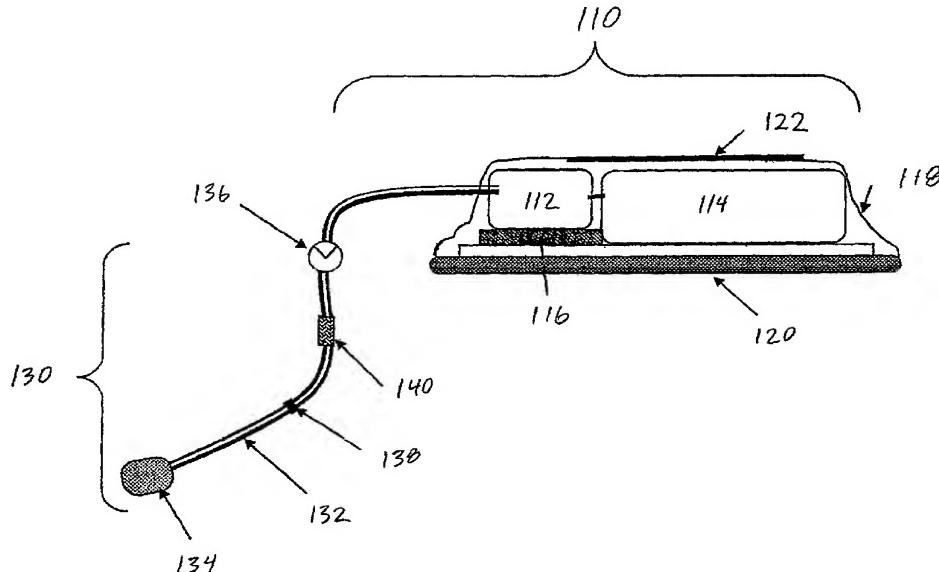
PCT

(10) International Publication Number
WO 2005/058385 A3

- (51) International Patent Classification⁷: **A61M 31/00**
- (21) International Application Number:
PCT/US2004/041208
- (22) International Filing Date: 9 December 2004 (09.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/529,162 12 December 2003 (12.12.2003) US
- (71) Applicant (for all designated States except US): **PHILOMETRON, INC. [US/US]; 11772 Sorrento Valley Road, Suite 152, San Diego, California 92121 (US).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **EDMAN, Carl, Frederick [US/US]; 12545 El Camino Real, Unit #C, San Diego, California 92130 (US). DRINAN, Darrel, Dean [US/US]; 3830 Valley Centre Drive, Suite 705, PMB 224, San Diego, California 92130 (US). LACKEY, Robert [US/US]; 3338 Fosca Street, Carlsbad, California 92009 (US).**
- (74) Agent: **MALLON, Joseph, J.; Knobbe, Martens, Olson & Bear, LLP, 2040 Main Street, 14th Floor, Irvine, California 92614 (US).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: MULTIPLE SECTION PARENTERAL DRUG DELIVERY APPARATUS



WO 2005/058385 A3

(57) Abstract: The invention relates to a parenteral therapeutic agent delivery device. The therapeutic agent delivery device has a disposable section and an implant section suitable for long term implantation within the tissue of a subject. When necessary, the disposable section can be detached from the implant section, and a new disposable section can be attached. The disposable section may contain a reservoir containing the therapeutic agent, a pump for dispensing the therapeutic agent, controlling circuitry for regulating the dispensing of the therapeutic agent, and transceiver circuitry and an antenna for wireless communication with external devices.

**Published:**

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

18 August 2005

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41208

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61M 31/00
US CL : 604/67

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3,923,060 (Ellinwood, Jr.) 02 December 1975 Note: See entire patent.	1-30

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

30 May 2005 (30.05.2005)

Date of mailing of the international search report

17 JUN 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Faxsimile No. (703) 305-3230

Authorized officer

Manuel Mendez

Telephone No. 703-000-000

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/41208

Continuation of B. FIELDS SEARCHED Item 1:
604/67, 65, 66
128/DIG. 12, 13